CLAIMS

- 1. Formulation of nonmagnetic toners for use in a non-magnetic toning system (NMTS) comprising:
- 5 a primary toner resin;
 - a polypropylene wax;
 - a charge control additive; and
 - a primary colorant.
 - 2. The formulation of claim 1 further comprising a secondary resin.
- 10 3. The formulation of claim 1 wherein the primary toner resin is a styrene based resin.
 - 4. The formulation of claim 3 wherein the styrene based resin is selected from the group consisting of styrene-acrylic, styrene-methyl methacrylate, styrene-butly methacrylate, styrene-ethylexyl methacrylate, polystyrene, styrene butadiene and mixtures thereof.
- The formulation of claim 2 wherein the secondary resins are selected from the group
 consisting of styrene based polyesters, styrene-based resins of claim 3, non-styrene based
 polyamides and non-styrene based polyesters and mixtures thereof.
 - 6. The formulation of claim 1 wherein the primary colorant comprises a plurality of primary colorants.
- 7. The formulation of claim 1 wherein the primary resins comprise at least about 88 percent20 by weight of the formulation.

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- 8. The formulation of claim 1 wherein the polypropylene wax comprise at least about 8 percent by weight of the formulation.
- 9. The formulations of claim 1 wherein the charge control additive is at least about 1 percent by weight of the formulation.
- 5 10. The formulation of claim 1 further comprising a post process additive.
 - 11. The formulation of claim 10 wherein the post process additive is a silica.
 - 12. The formulations of claim 10 wherein the post process additive is a titania.
 - 13. The formulation of claim 1 wherein the NMTS is compatible with an electrographic printing system.
- 10 14. The formulation of claim 1 wherein the NMTS is compatible with an electrophotographic printing system.
 - 15. An NMTS interchangeable with a magnetic toning system in a printing system using the toner formulation of any one of claims 1-14 comprising:
 - at least three rotating components;
- a metering blade assembly associated with at least one of the at least three rotating components;
 - an actuating assembly which engages one rotating component of the NMTS's at least three rotating components with the printing system; and
 - an enclosure housing the at least three rotating components and metering blade assembly.

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- 16. The NMTS of claim 15 wherein the at least three rotating components comprise a transfer roller, a donor roller and a one or more mixer blades.
- 17. The NMTS of claim 15 wherein the transfer roller is motor driven.
- 18. The NMTS of claim 15 wherein the transfer roller is comprised of a conductive metal shaft.
 - 19. The NMTS of claim 18 wherein the metal shaft conducts electricity.
 - 20. The NMTS of claim 15 wherein the transfer roller includes a dielectric surface.
 - 21. The NMTS of claim 20 wherein the dielectric surface comprises a photoreceptive material.
- 10 22. The NMTS of claim 21 wherein the dielectric surface is neoprene.
 - 23. The NMTS of claim 16 wherein the donor roller is motor driven.
 - 24. The NMTS of claim 16 wherein the donor roller conducts electricity.
 - 25. The NMTS of claim 16 wherein the donor roller contains a fur coating.
 - 26. The NMTS of claim 16 wherein the one or more mixer blades is motor driven.
- 15 27. The NMTS of claim 16 wherein the one or more mixer blades continuously mixes a supply of toner particles.
 - 28. The one or more mixer blades of claim 27 wherein toner particles from the supply of toner particles are uniformly supplied to the donor roller.

- 29. The NMTS of claim 15 wherein the metering blade assembly comprises two spring-loaded blades.
- 30. The metering blade assembly of claim 29 wherein the spring-loaded blades are mounted at oblique angles to the transfer roller.
- 5 31. The metering blade assembly of claim 30 wherein each of the spring-loaded blades has a base and an edge.
 - 32. The metering blade assembly of claim 31 wherein a tribocharging interface is created at the edge of at least one of the spring-loaded blades.
 - 33. The NMTS of claim 15 wherein the actuating assembly includes as solenoid.
- 10 34. The NMTS of claim 15 wherein the one of the NMTS's at least three rotating components is engaged by the actuating assembly to a dielectric imaging surface of the printing system.
 - 35. The NMTS of claim 34 wherein the one of the NMTS's at least three rotating components contacts the dielectric imaging surface during an imaging process.
- 36. The NMTS of claim 35 wherein the one of the NMTS's at least three rotating components15 is the transfer roller.
 - 37. The NMTS of claim 34 wherein the dielectric imaging surface is part of a dielectric imaging drum.

- 38. The NMTS of claim 34 wherein the dielectric imaging surface is part of a dielectric imaging belt.
- 39. The NMTS of claim 15 wherein the printing system is electrographic.
- 40. The NMTS of claim 15 wherein printing system is electrophotographic.
- 5 41. The NMTS of claim 15 wherein at least one of the at least three rotating components separates from the dielectric imaging surface when the printing system is not imaging.
 - 42. The NMTS of claim 41 wherein the at least one of the at least three rotating components a transfer roller.
 - 43. The NMTS of claim 15 further comprising sensor components.
- 10 44. The sensor components of claim 43 comprising a motion sensor, a toner storage sensor and a speed sensor.
 - 45. The NMTS of claim 15 wherein the enclosure accommodates a transfer roller, a donor roller, mixer blades, a metering blade assembly, a mounting system for an actuating assembly, an intermediate storage for a toner, a plurality of electronic components, a wiring harness and connectors, and a toner dispensing system.
 - 46. A method of printing comprising:

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providing a formulation of a non-magnetic toners;

placing the non-magnetic toner in an interchangeable NMTS;

replacing a magnetic toning system of a printing system with the NMTS in a compatible printing system; and

5 printing to a print medium.

- 47. The method of claim 46 wherein the formulations of non-magnetic toners are the toners of claim 1.
- 48. The method of claim 46 wherein the magnetic toning system in the compatible printing system is replaced with the NMTS of claim 15.